

FIG. 1A

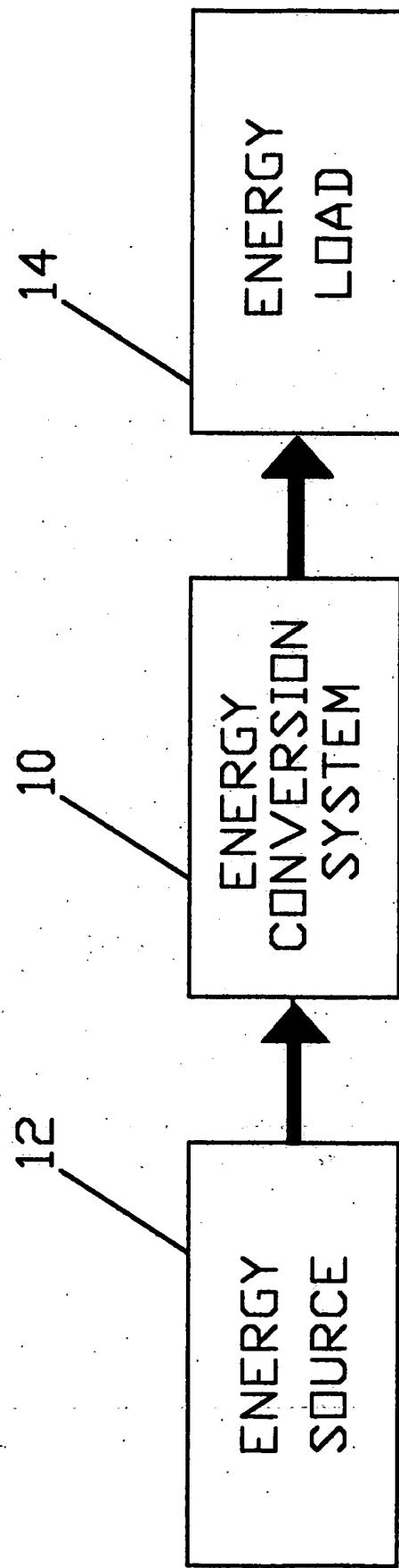


FIG. 1B

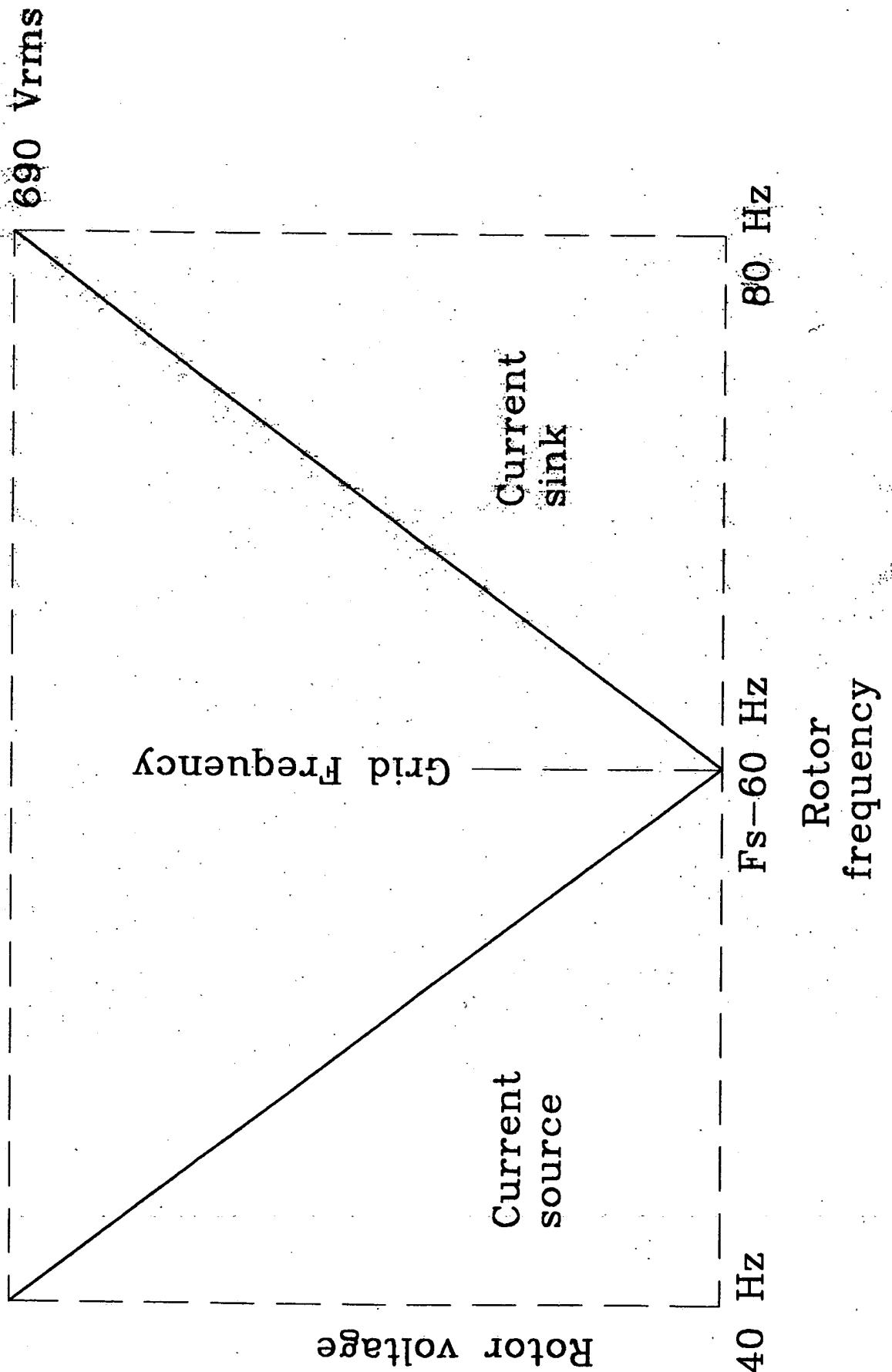


FIG. 2A

Mechanical power
Versus rotation rate
at constant
blade pitch

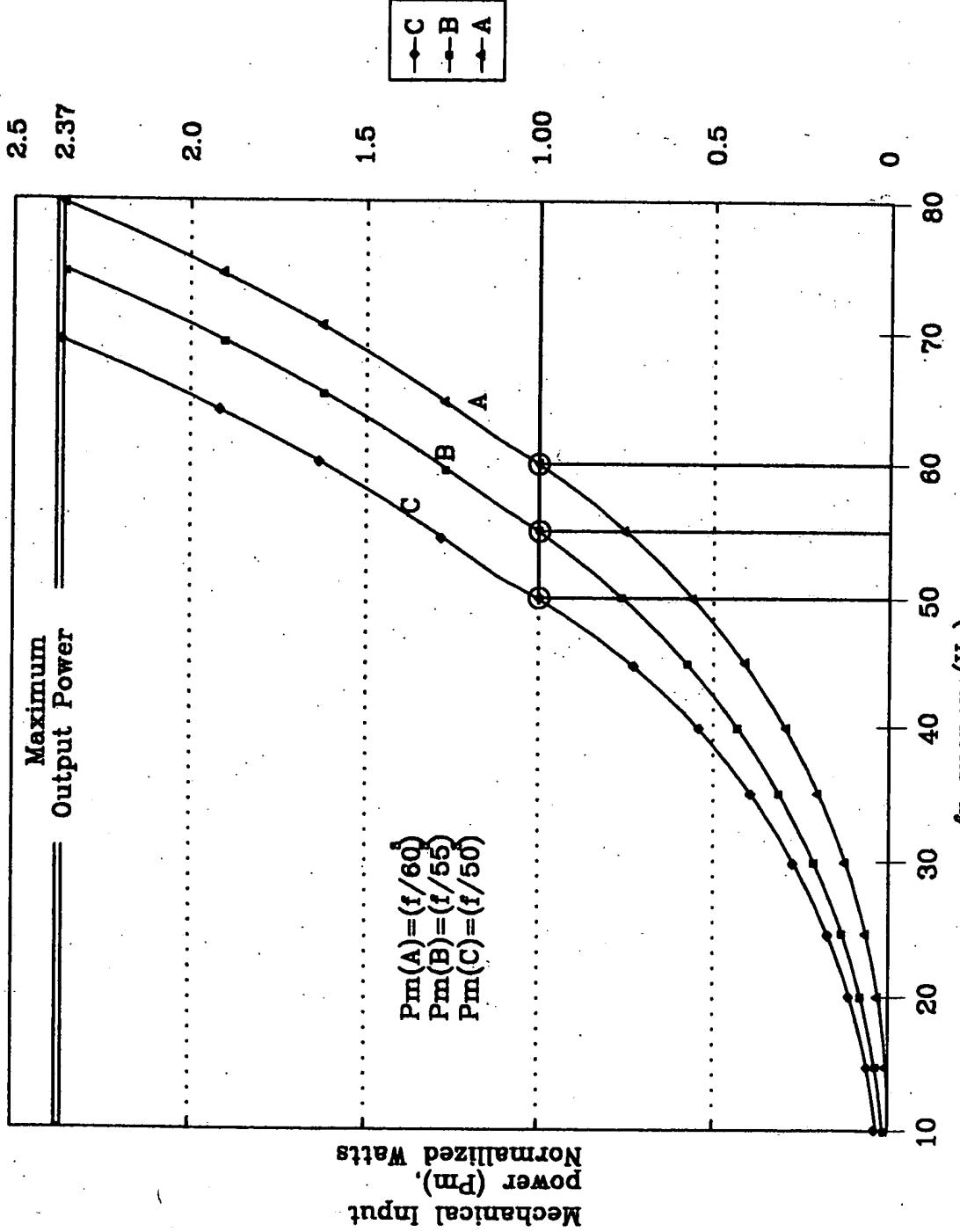


FIG. 2B

Rotor power
versus
Rotation rate

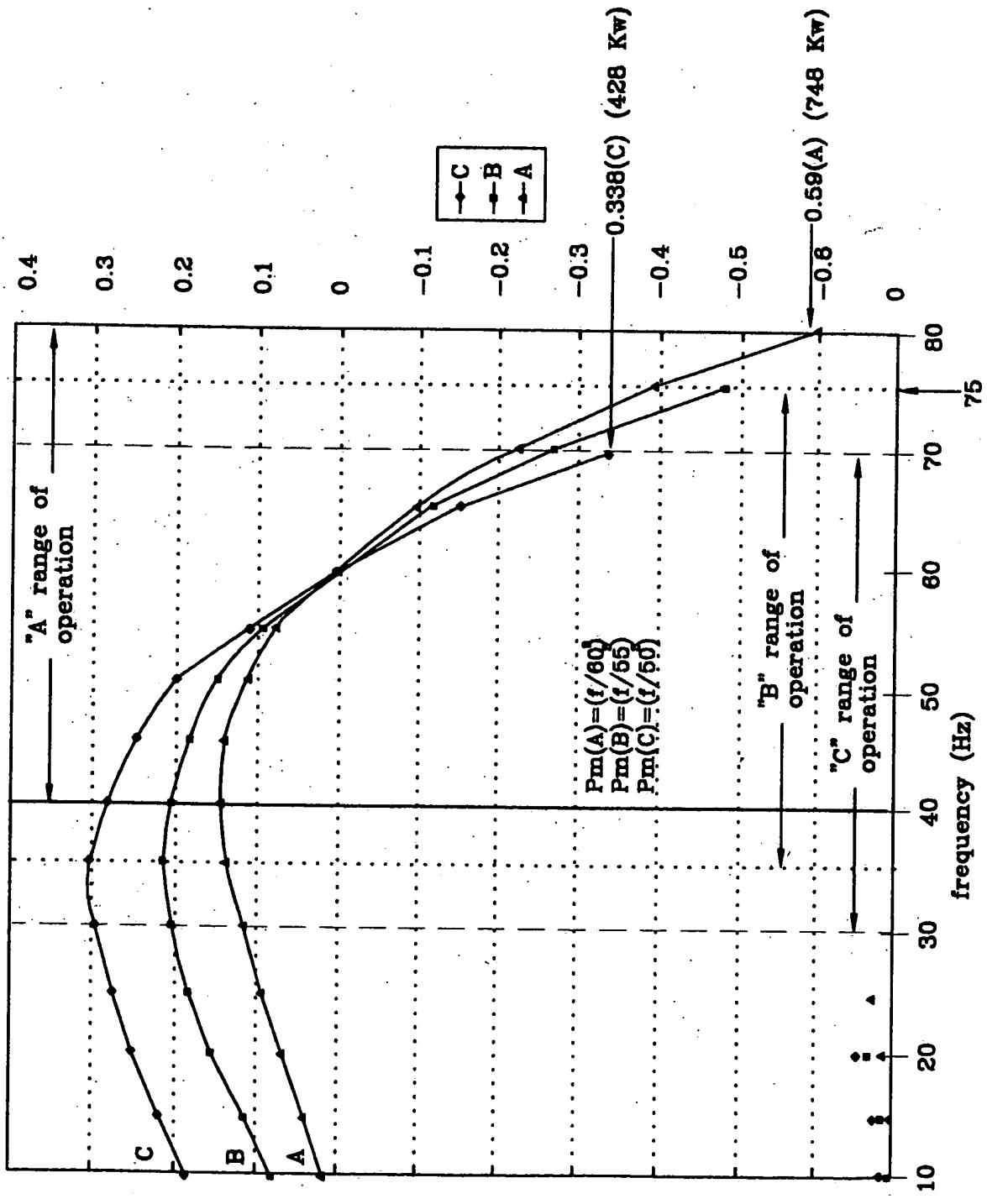


FIG. 2C

FIG. 3A

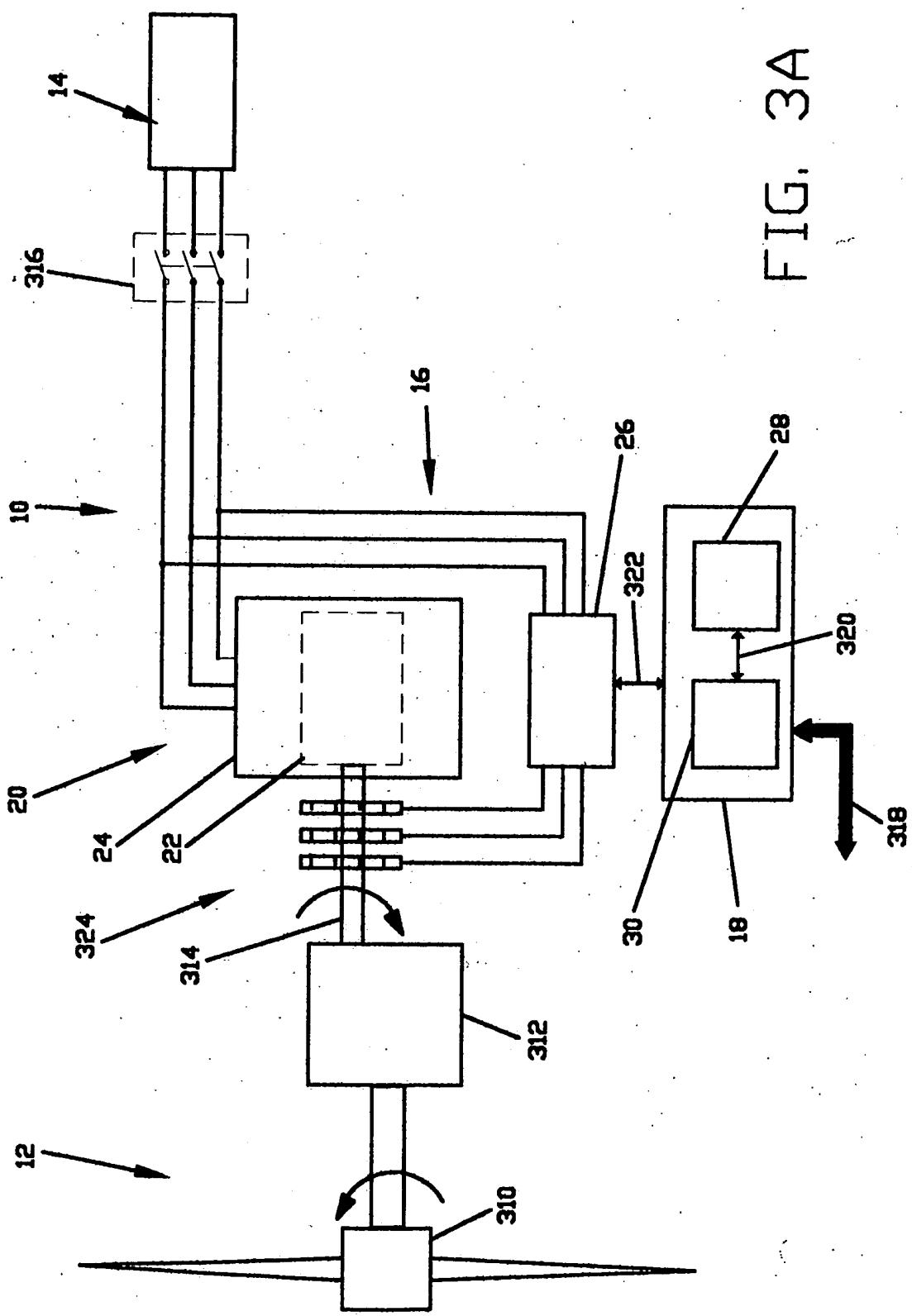
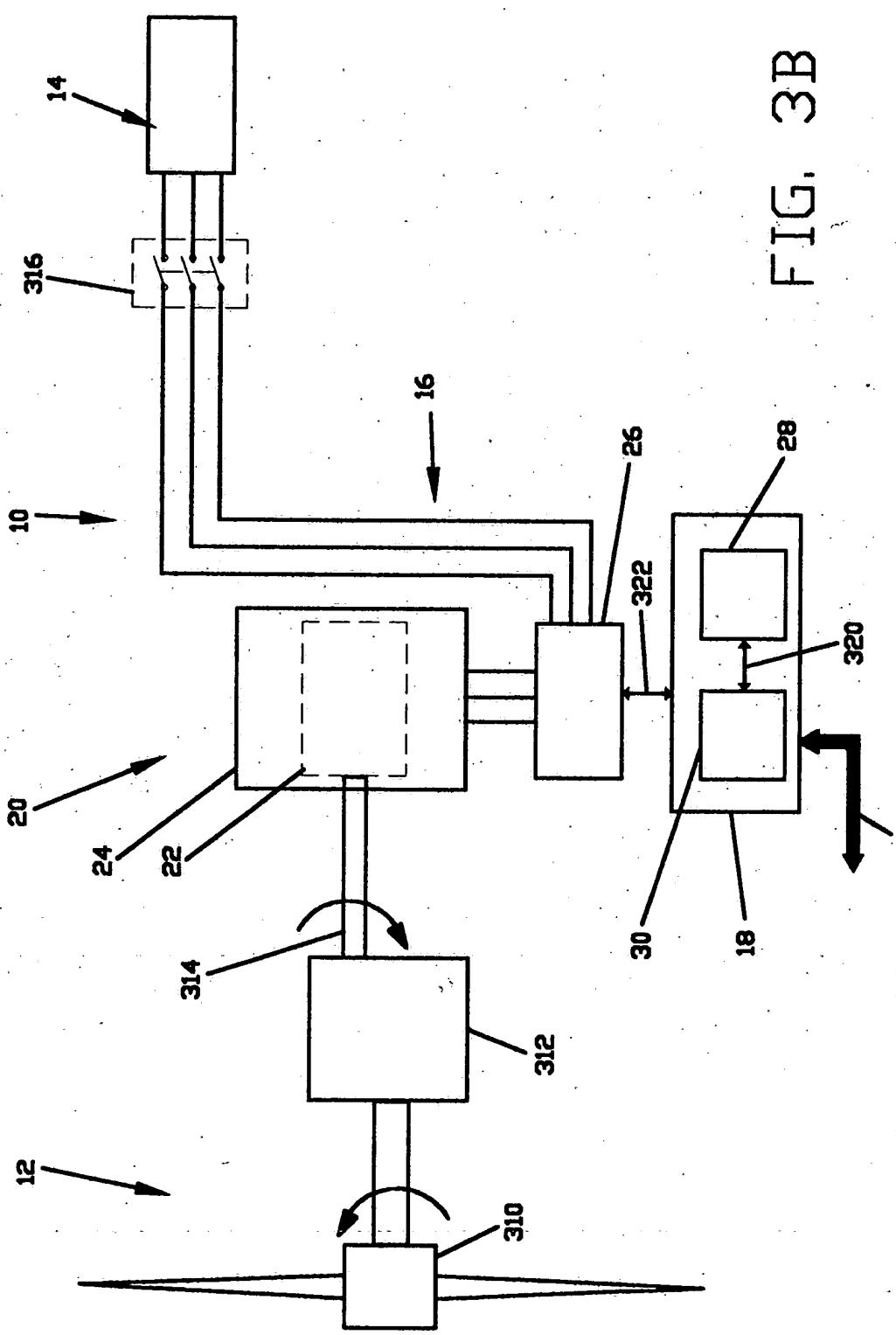


FIG. 3B



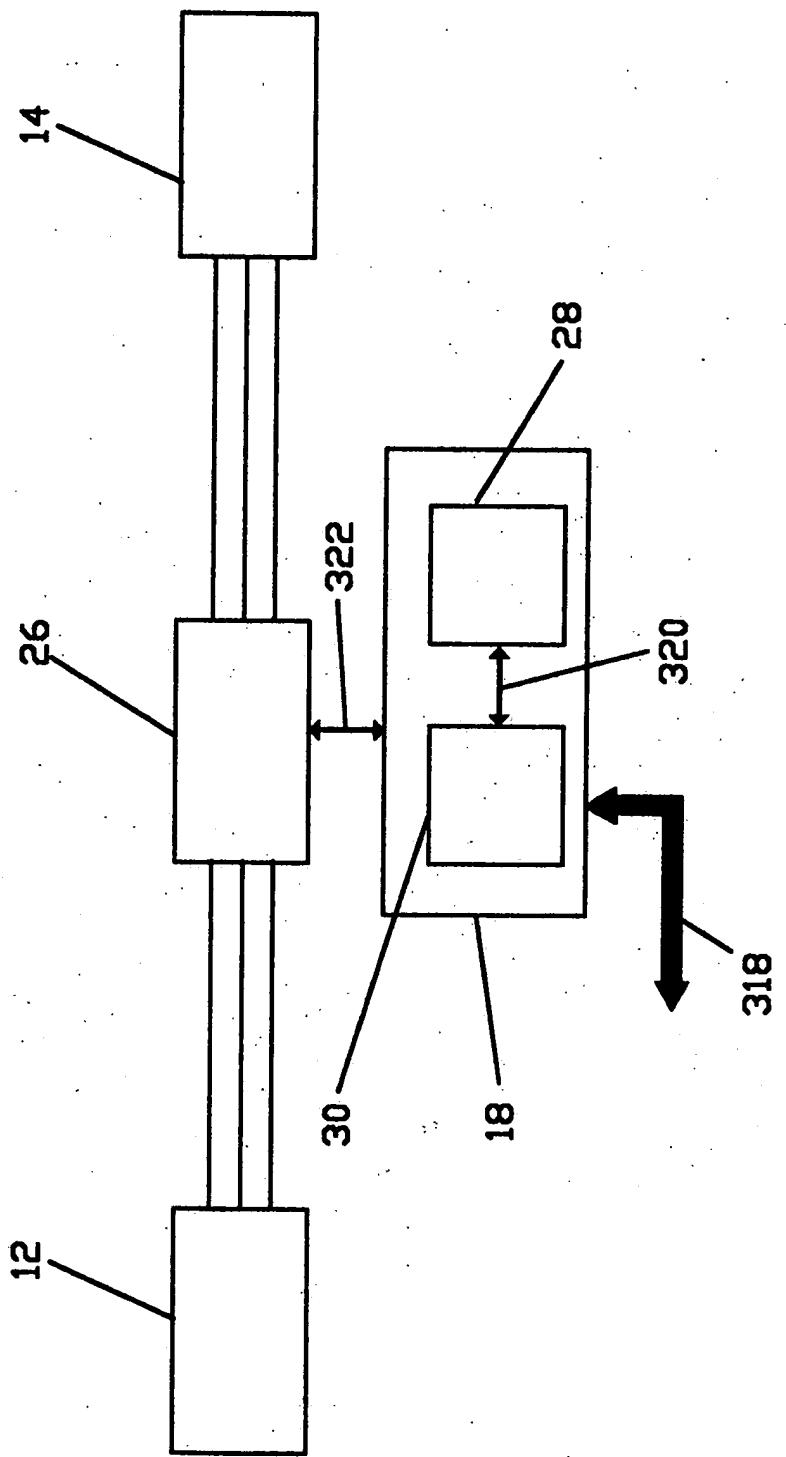


FIG. 3C

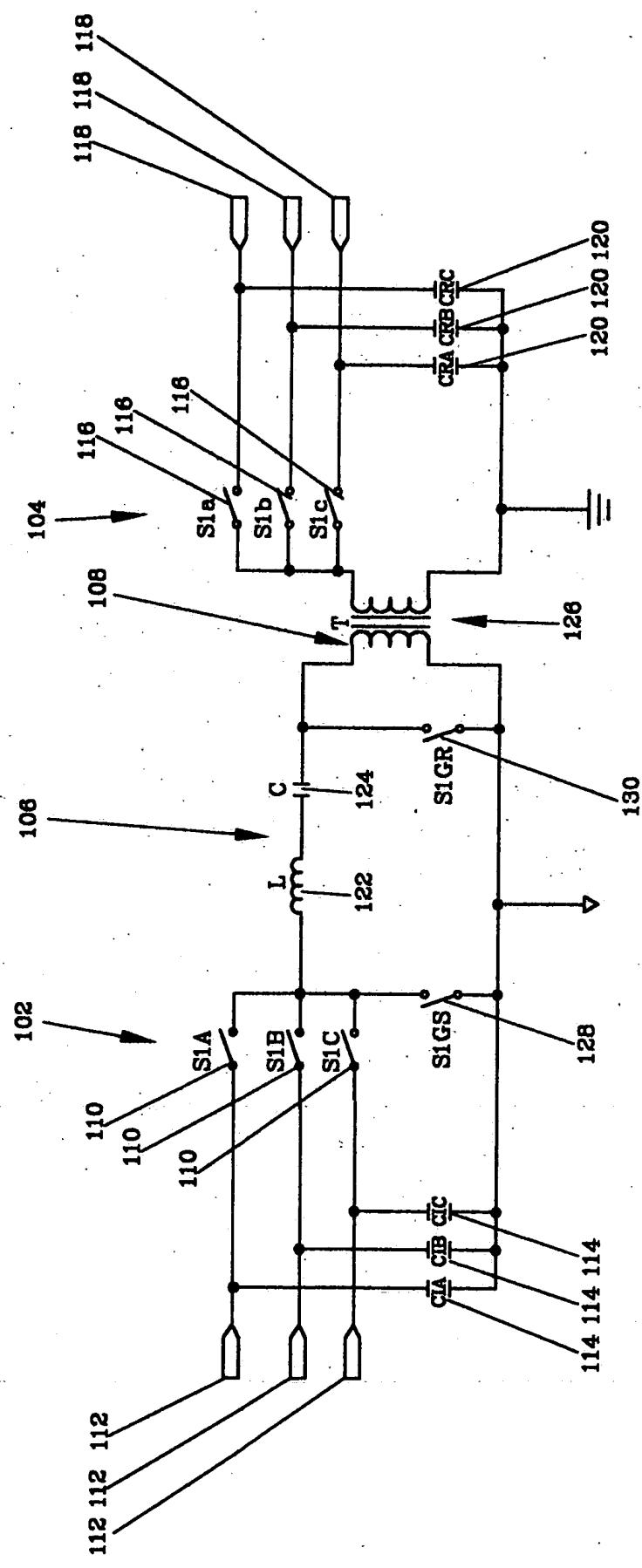


FIG. 4

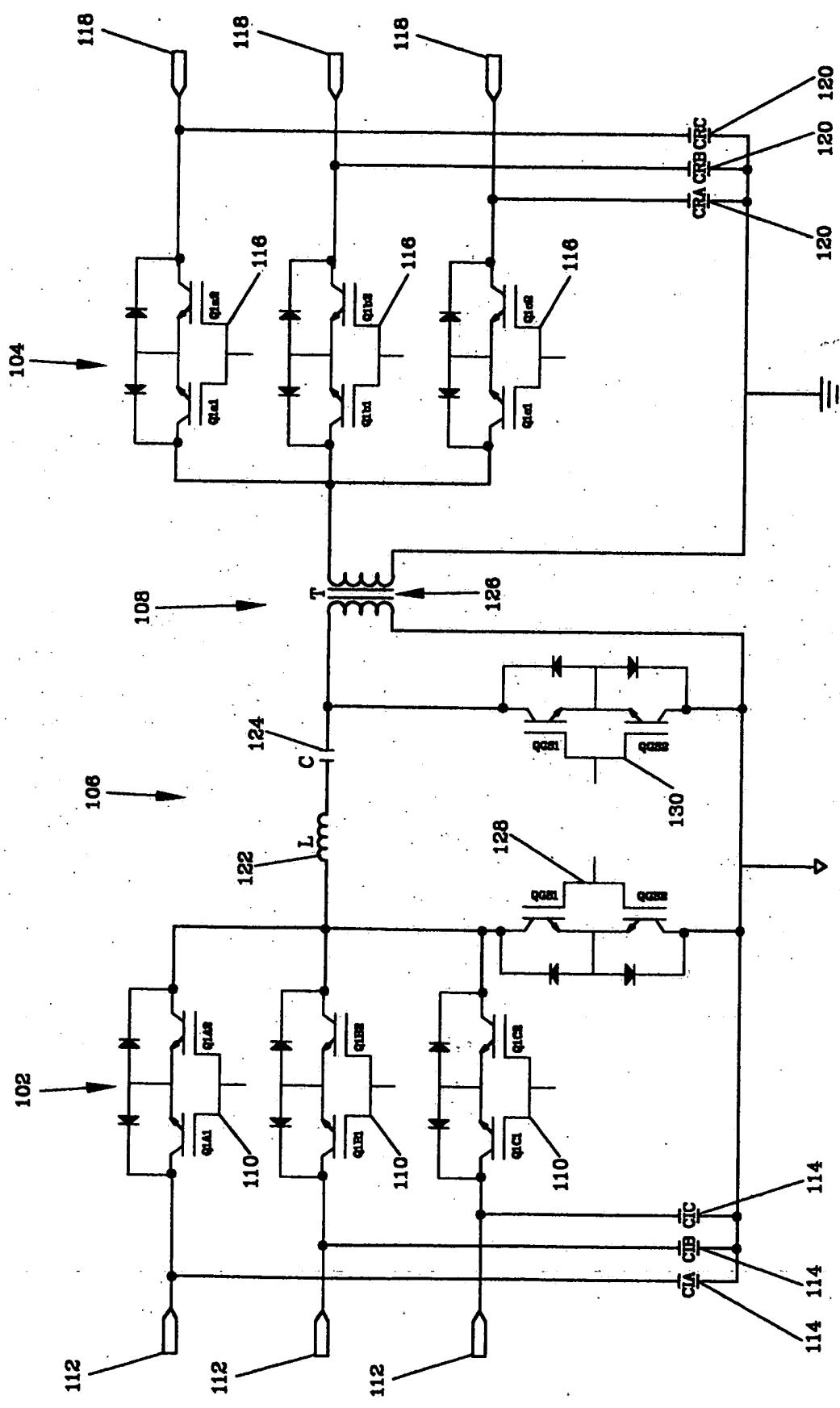


FIG. 5

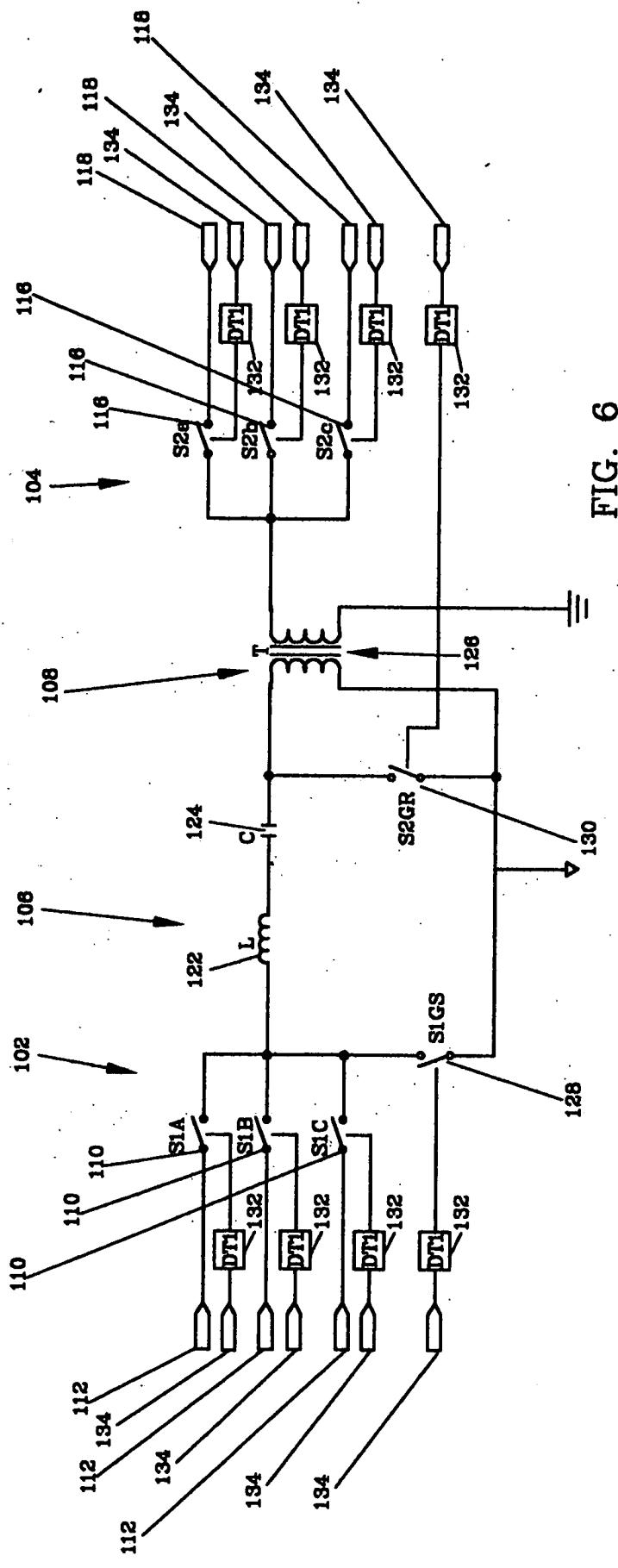
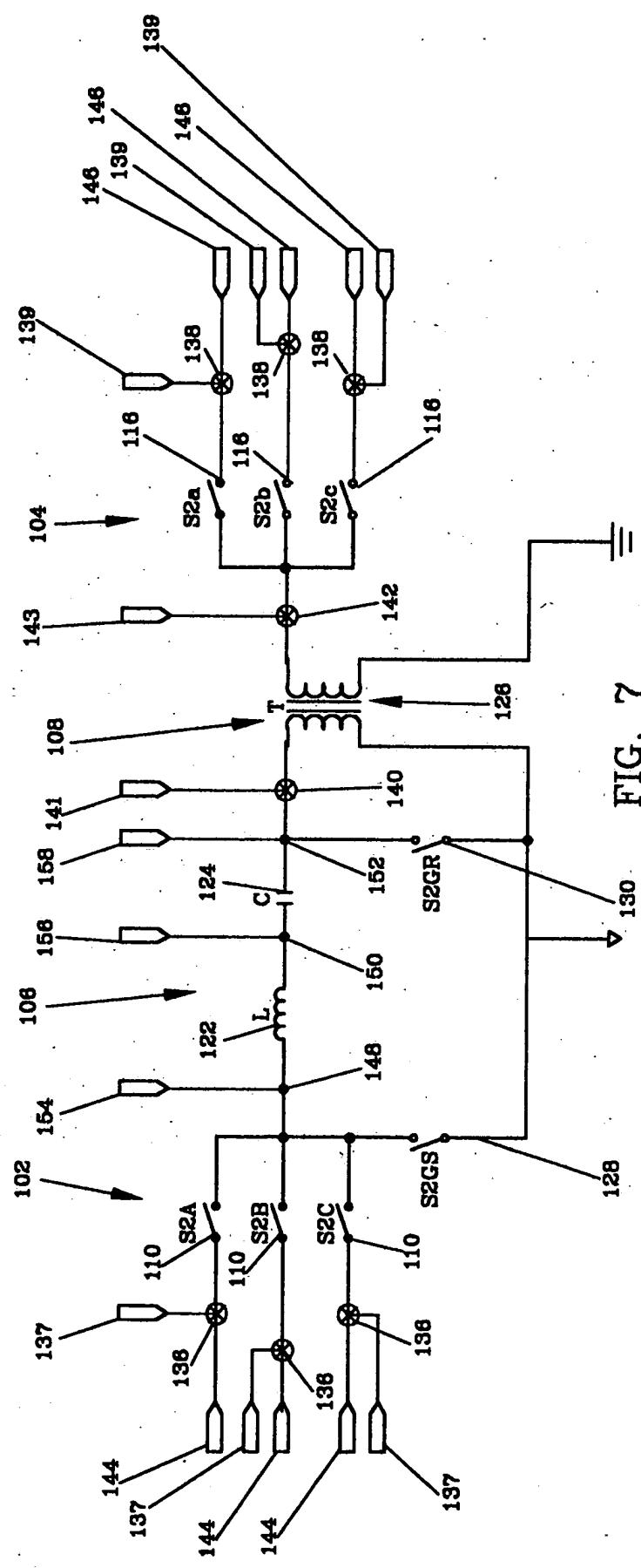


FIG. 6



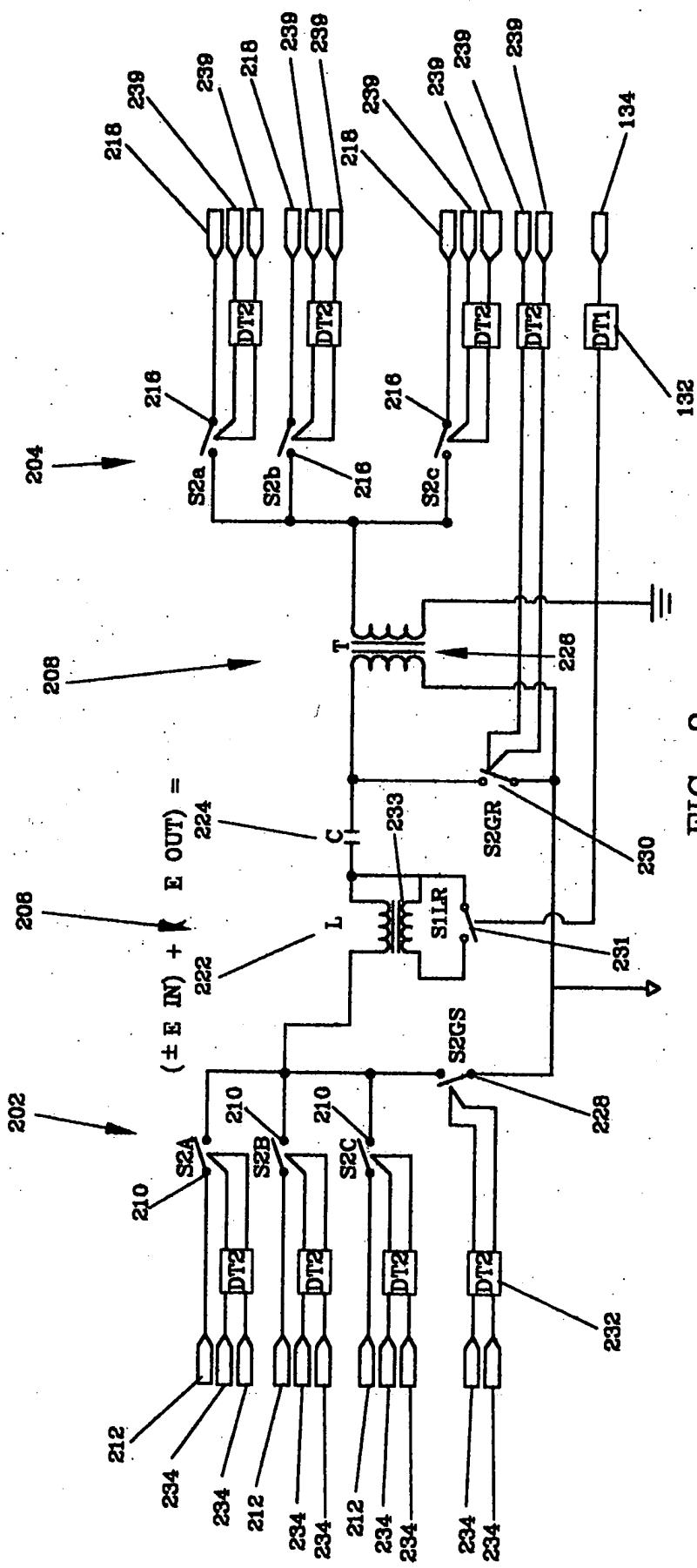


FIG. 8

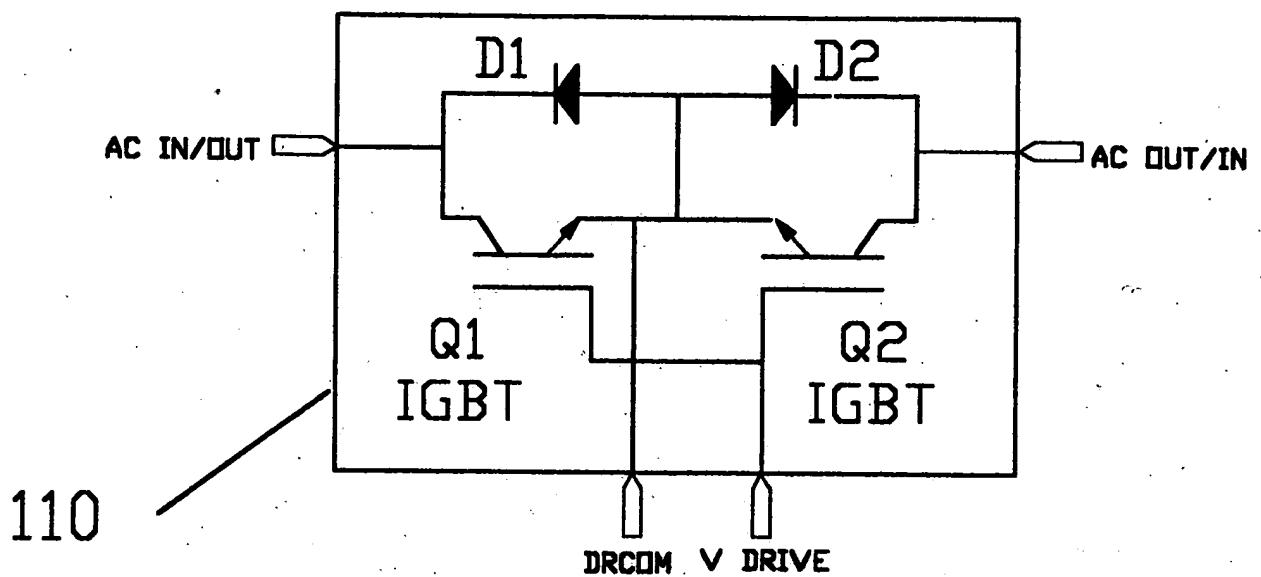


FIG. 9

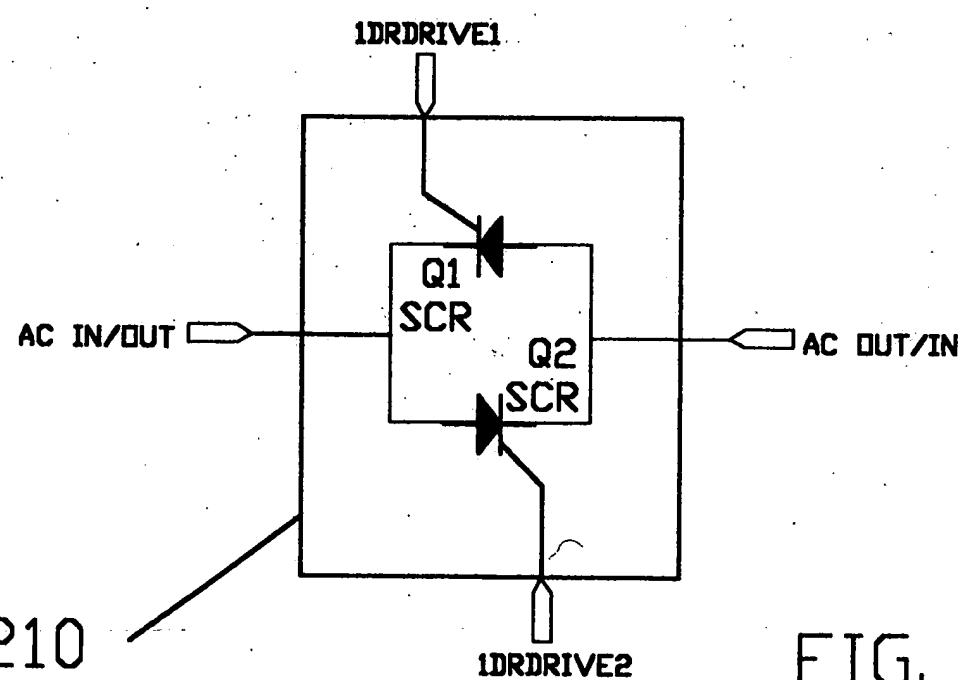


FIG. 10

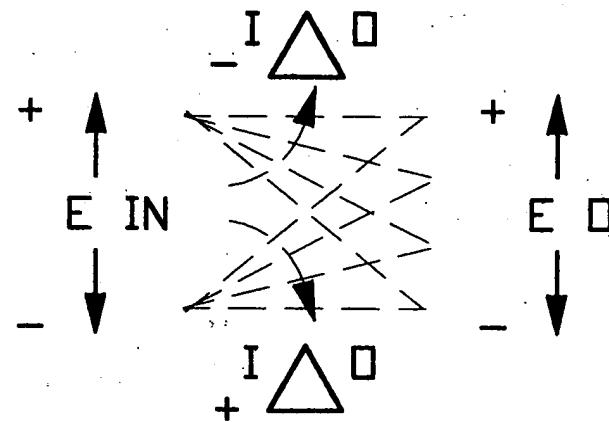
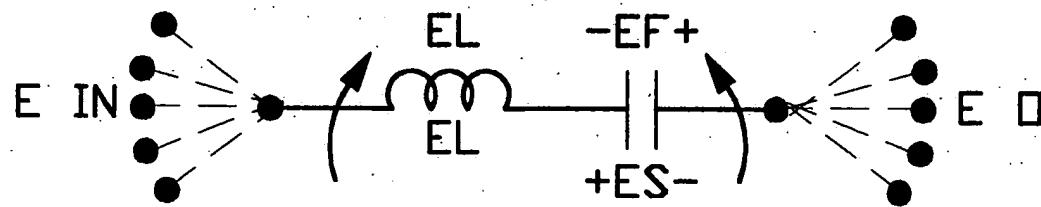
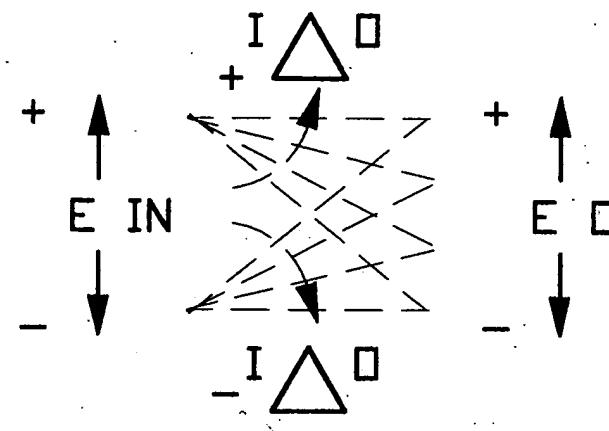
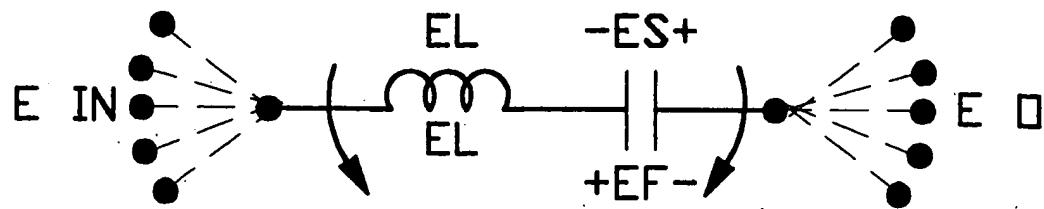
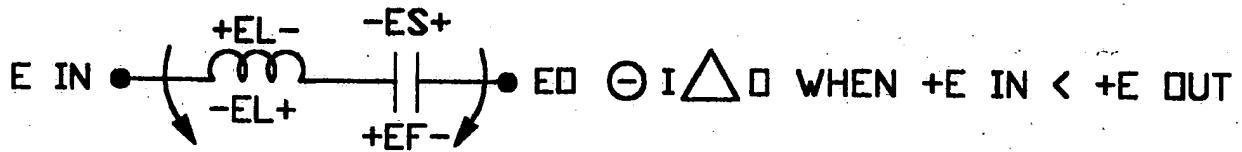
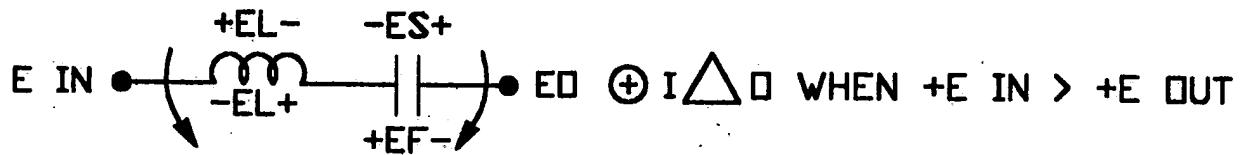


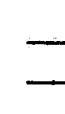
FIG. 11

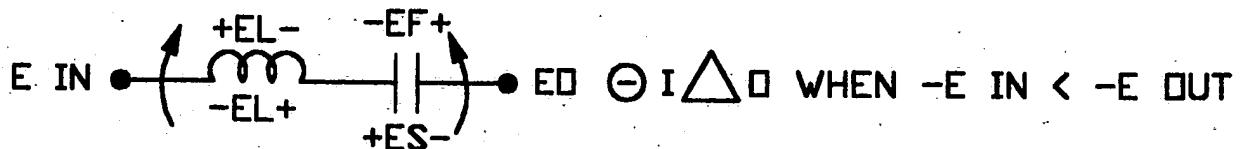
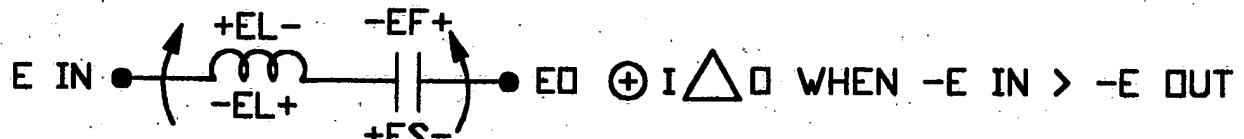
CHARGE TRANSFER  



$$(\pm E \text{ IN}) - (\pm E \text{ OUT}) = \pm I \Delta \square$$

$$EL = ES \pm I \Delta \square$$

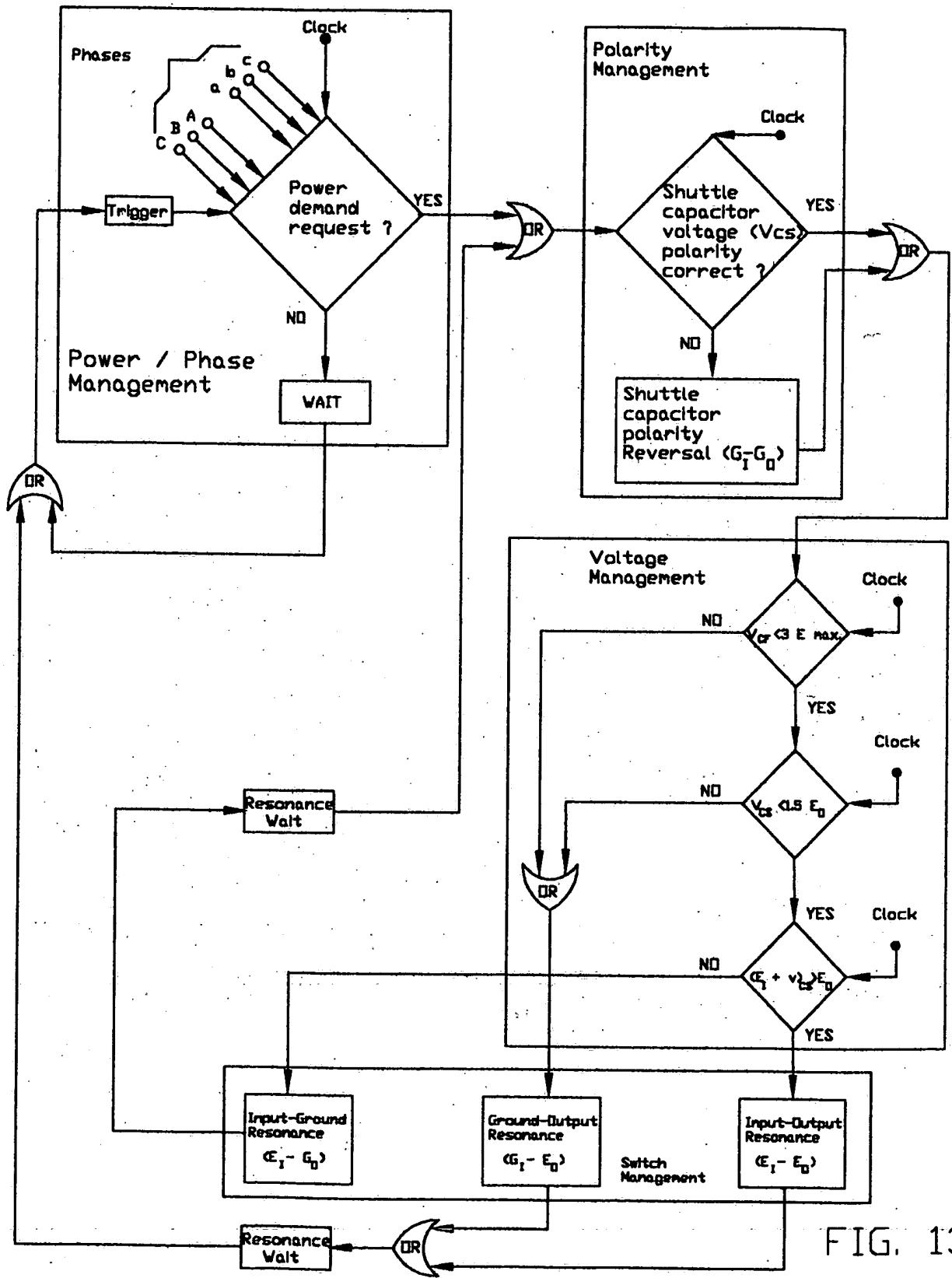
  CHARGE TRANSFER



$$(\pm E \text{ IN}) + (\pm E \text{ OUT}) = \pm I \Delta \square$$

$$EL = ES \pm I \Delta \square$$

FIG. 12



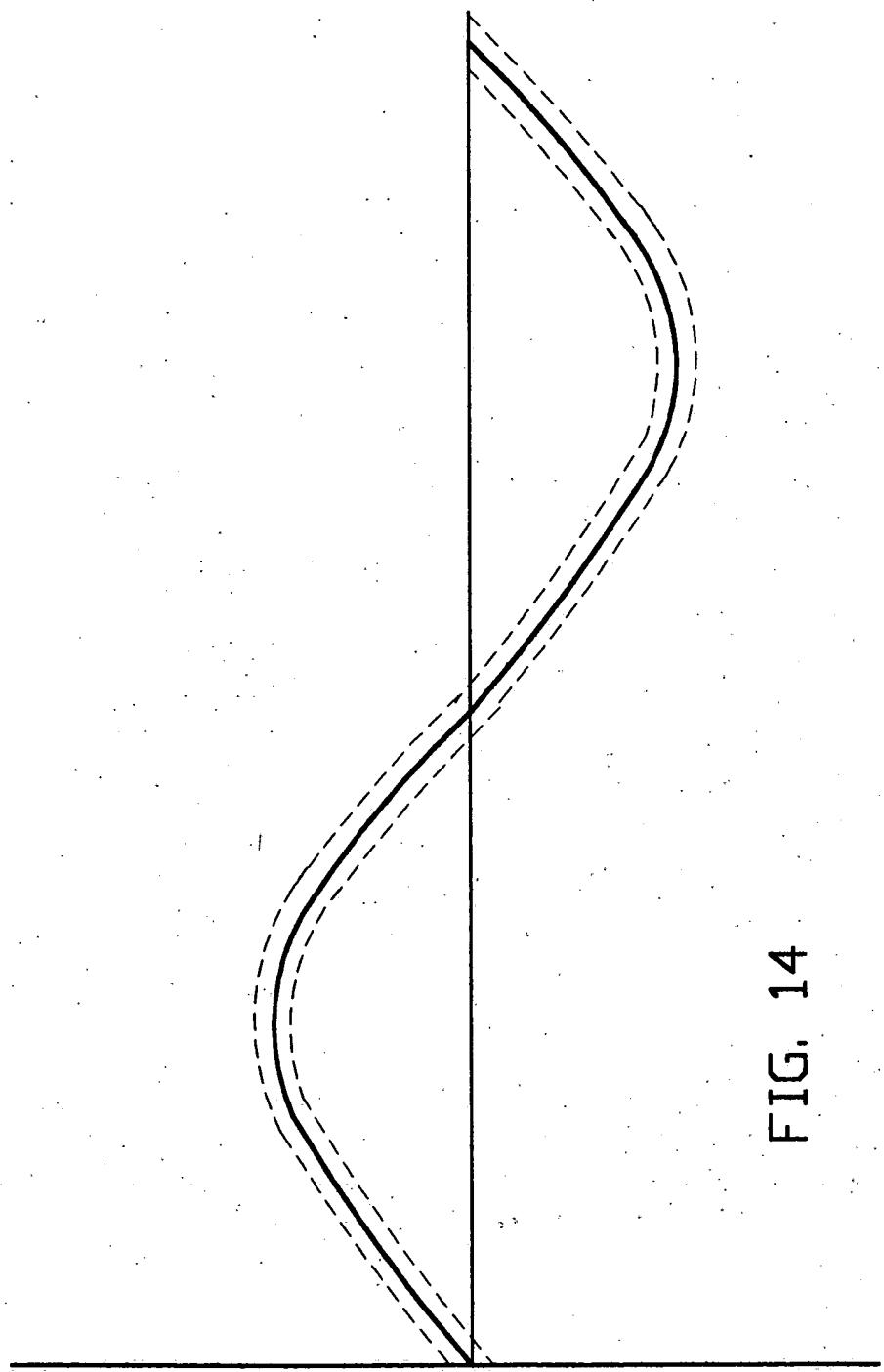


FIG. 14

Voltage
Amplified

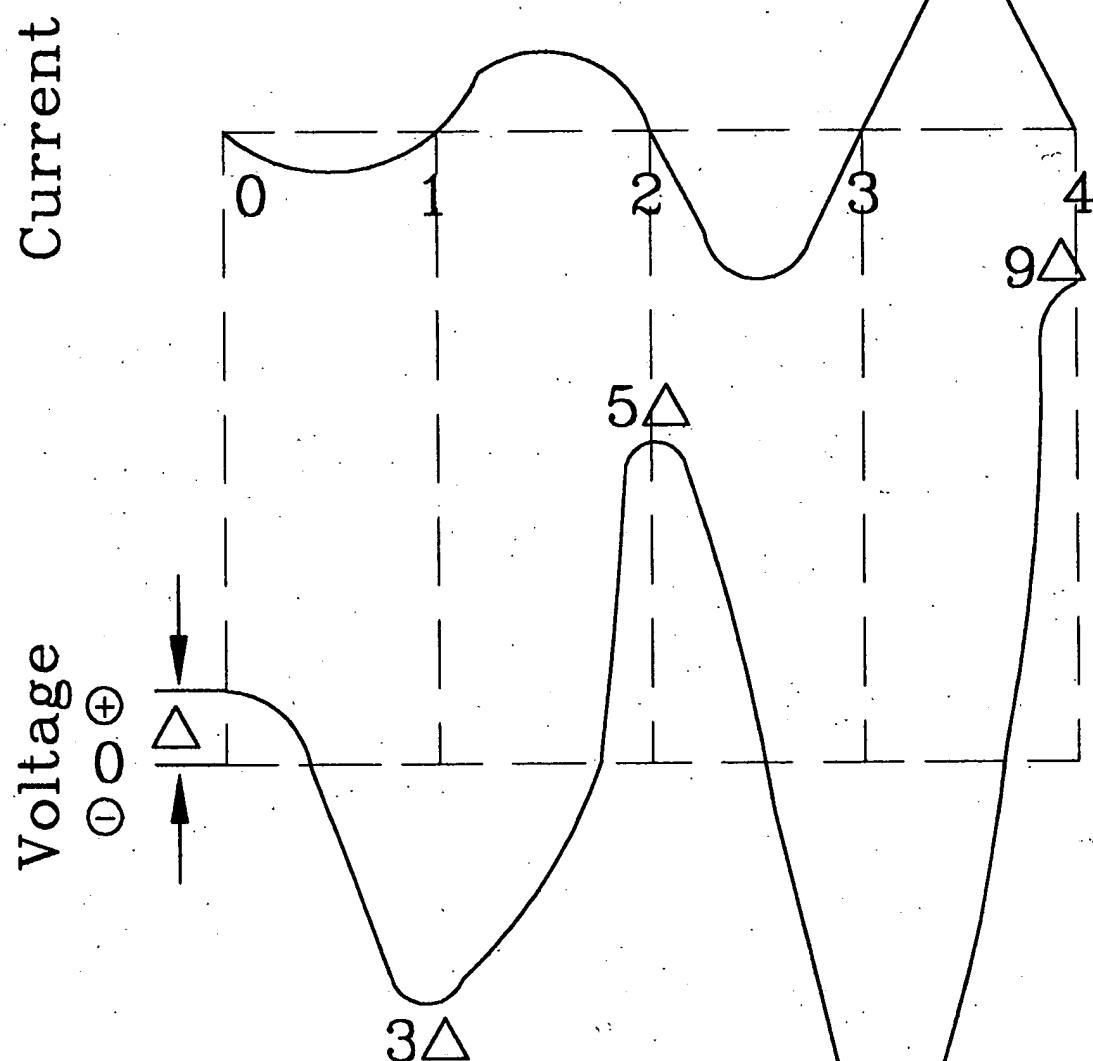


FIG. 15

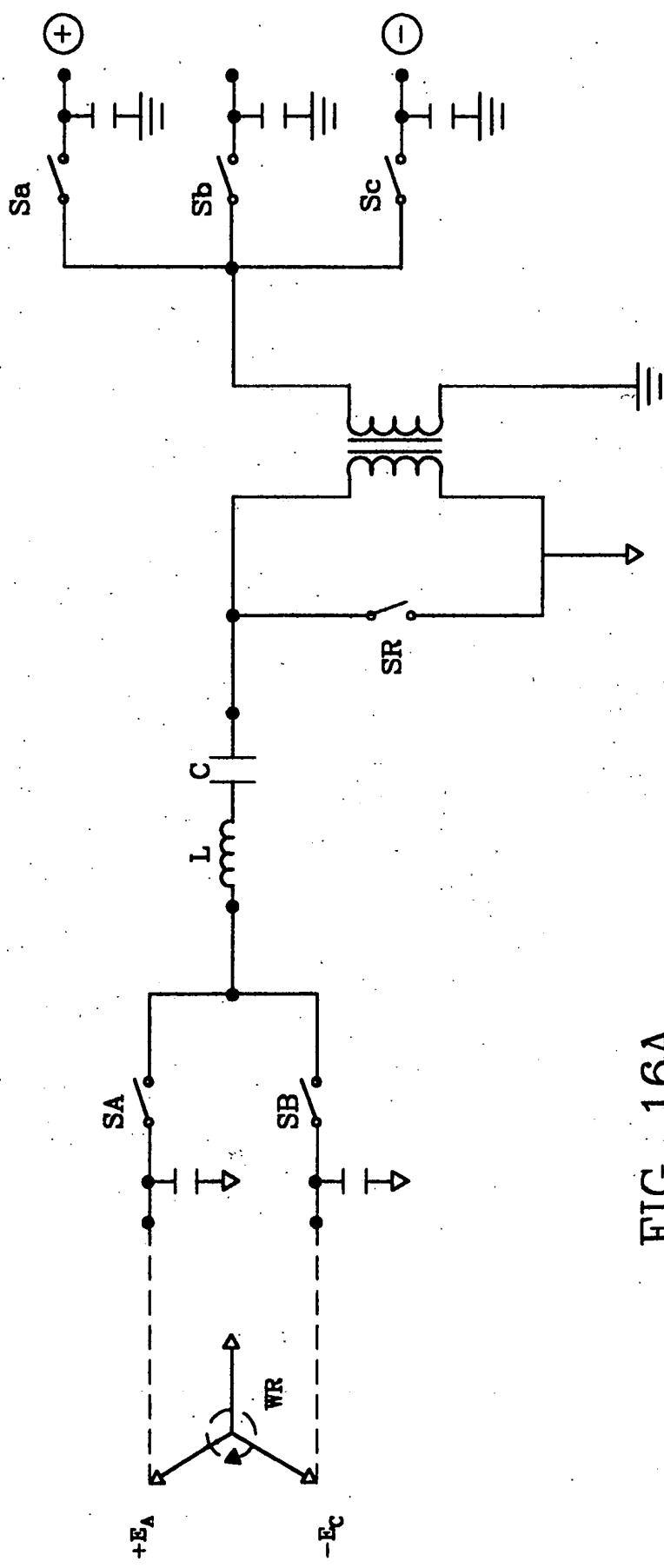


FIG. 16A

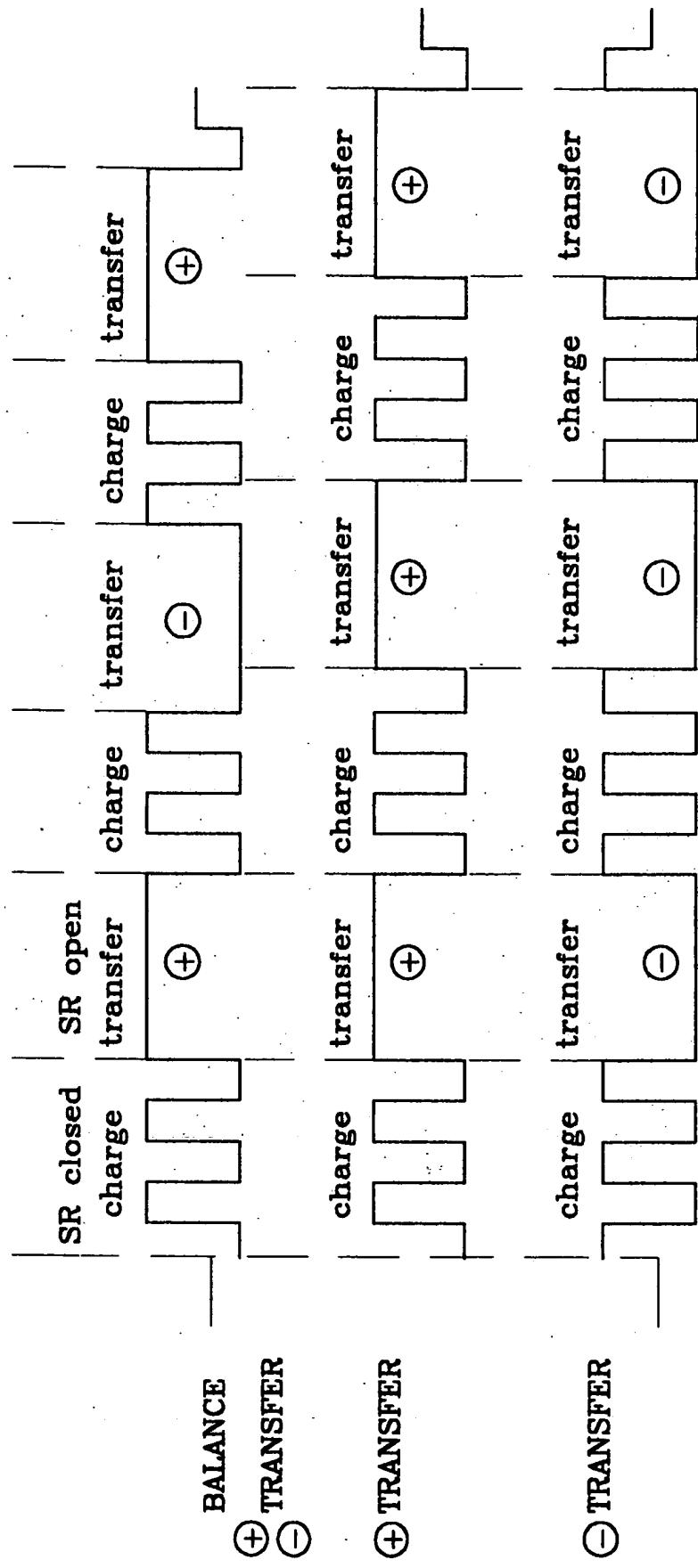


FIG. 16B

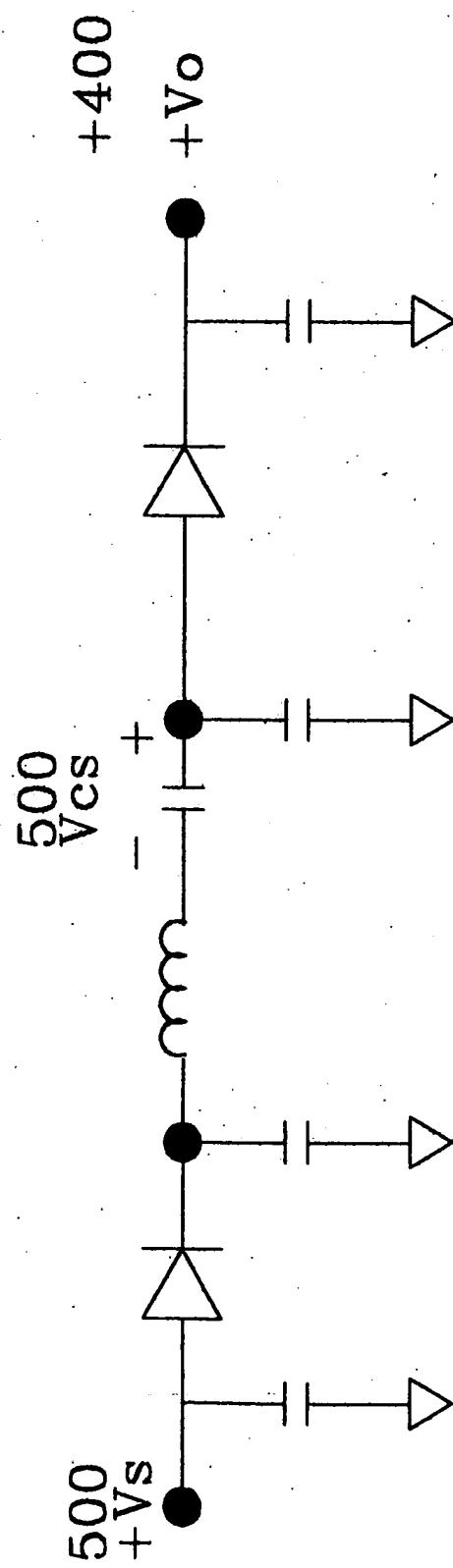
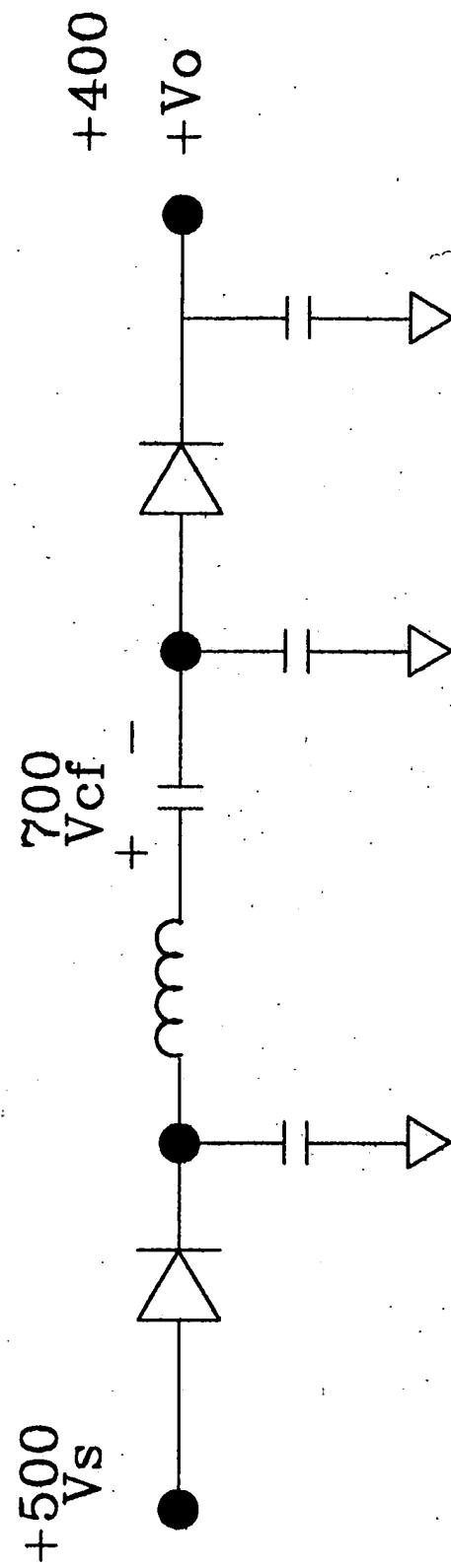
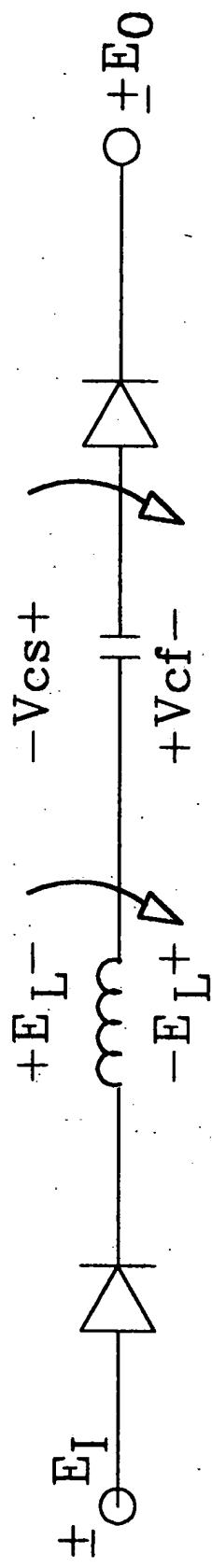


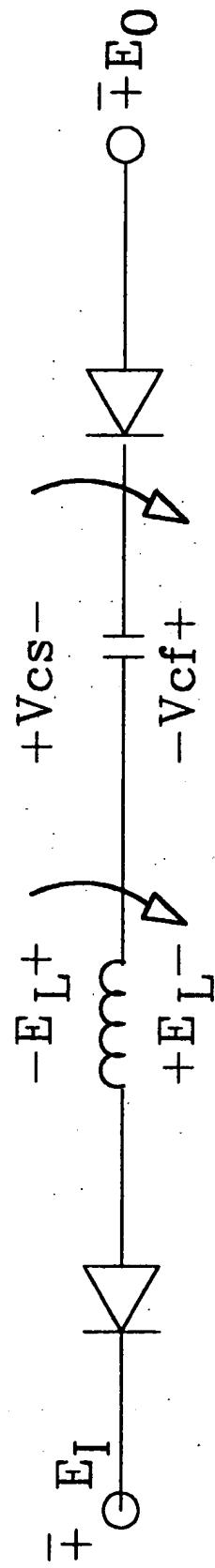
FIG. 17A





$$1A \quad (\pm E_I) - (\pm E_0) = \pm_I \Delta_0$$

FIG. 18



$$1B \quad -(\mp E_I) + (\mp E_0) = \pm_I \Delta_0$$

FIG. 19

$$2A, 2B \quad |E_L| = |V_{CS}| + (+_I \Delta_0)$$

$$3A, 3B \quad |\Delta V_C| = 2 |E_L|$$

Therefore

$$\begin{aligned} 4A, 4B \quad |\Delta V_C| &= 2 \left\{ |V_{CS}| + \frac{1}{2} |\Delta_0| \right\} \\ 5A, 5B \quad \Delta q &= C |\Delta V_C| = 2C |E_L| \\ 6A, 6B \quad I_{AV} &= \Delta q \quad (\text{PRF}) \end{aligned}$$

FIG. 20

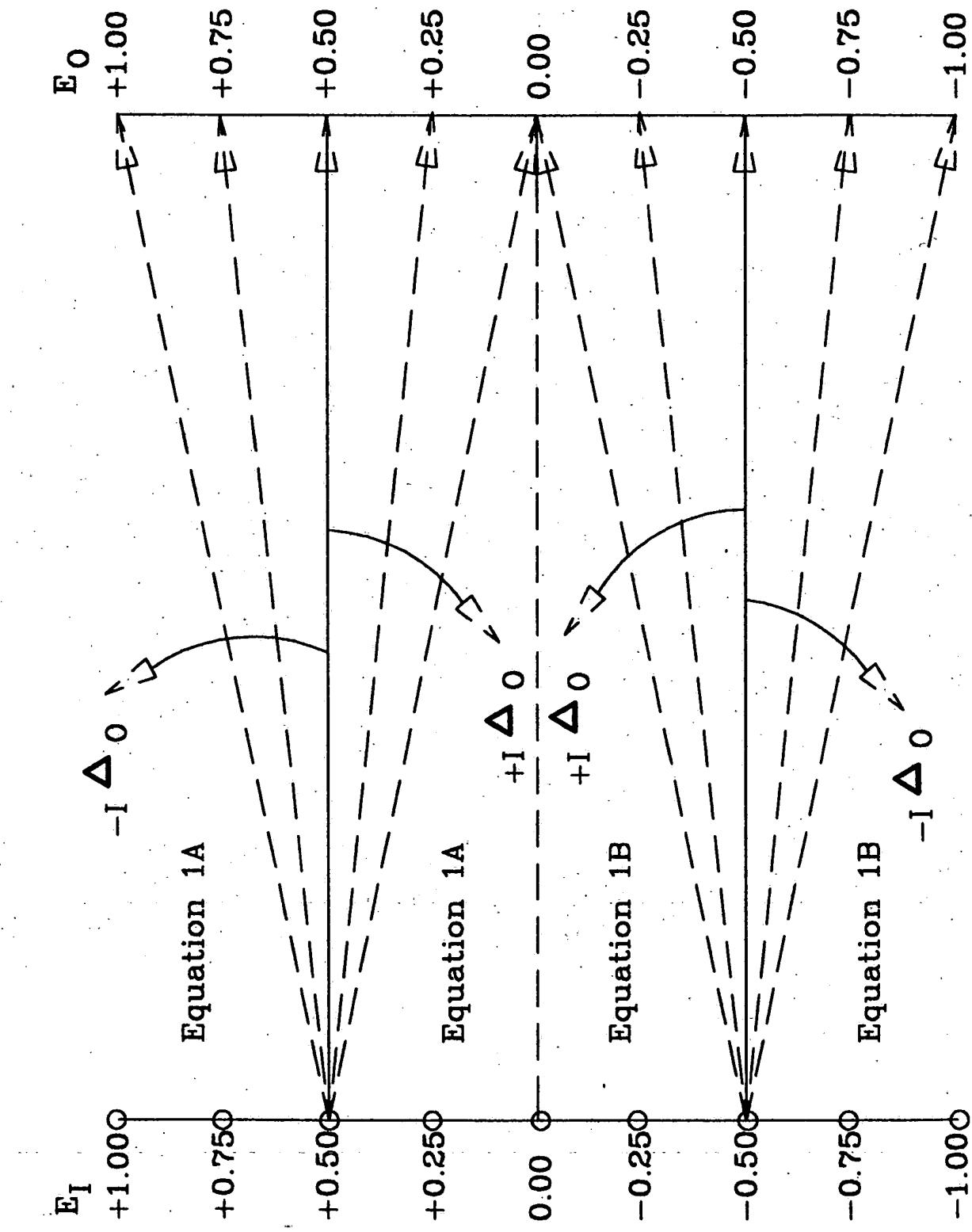
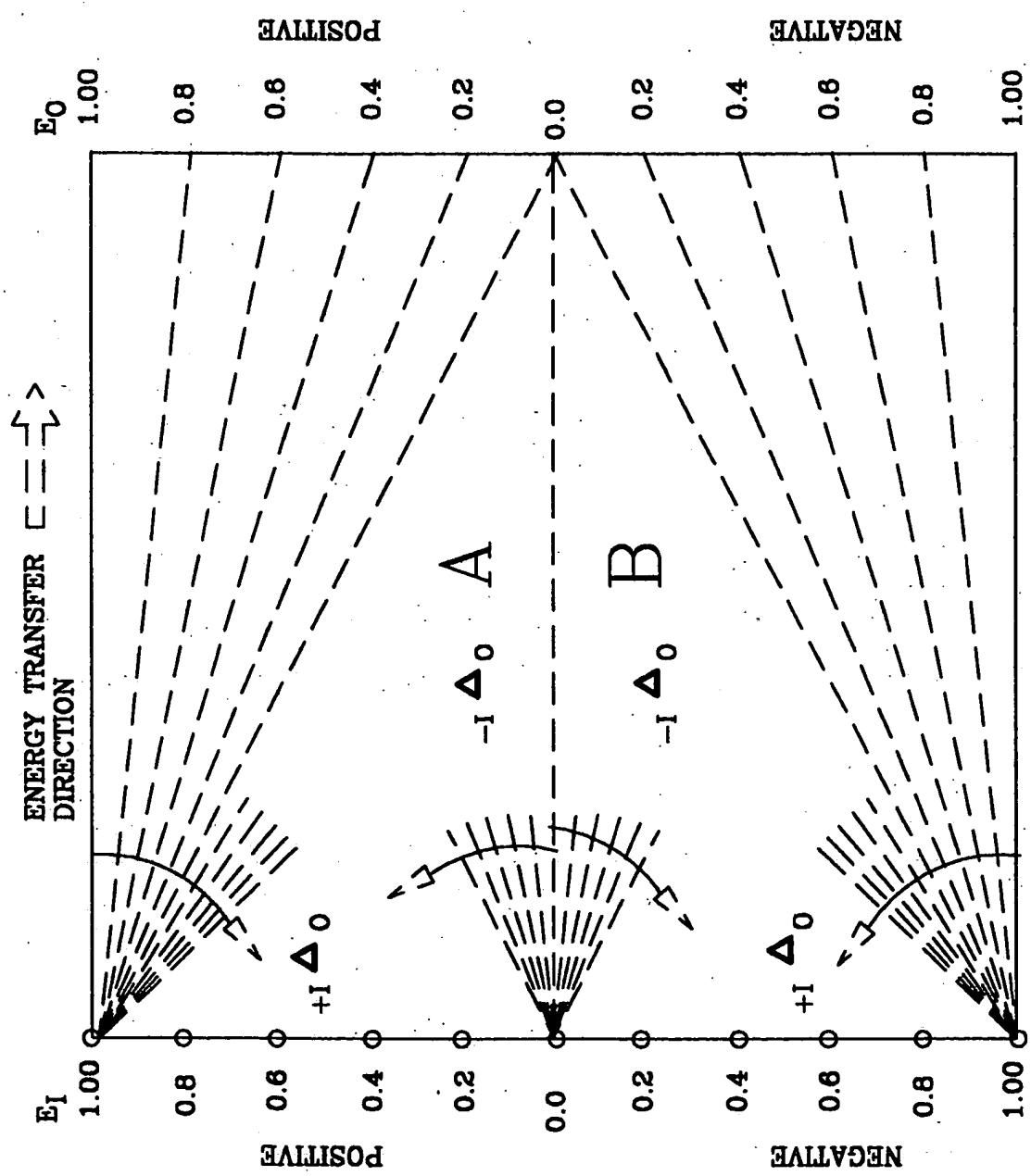


FIG. 21



- A Positive input to positive or negative output $\Leftarrow \Rightarrow$
- B Negative input to negative or positive output $\Leftarrow \Rightarrow$

FIG. 22